Electronic supplementary material

ECM Table 1 Evensis

ESM Table 1	Exercise	programme
Brisk walking programme		

Month	Warming up	,s	Resistance exerc	cise*				Interval end	urance exercise§		Cooling				
Wollin	Walking		Elastic band/Floo	or exercises				'In' (active exercise)		'Out' (active recovery)		down [§]	Session	Frequency	Total exercise training
	Duration (min)	Intensity (%HF _{max})	Exercises (n)	Duration (min)	Sets (n)	Repetitions (n)	%1-RM	Intensity (%HF _{max})	Duration (min)	Intensity (%HF _{max})	Duration (s)	Duration (min)	Duration (min)	(sessions/week)	(min/week)
1	10	45-50	5	10-15	1–2	10–15	N/A	55-60	10 × 1	40	60	5	45	3	135
2	10	55-60	5	15	2	10-15	N/A	55-60	12×1	40	60	5	55	3	165
3	10	55-60	5	15	2	10-15	N/A	60-65	12×1	40	60	5	55	3	165
4	10	55-60	5	15	2	15-20	N/A	60-65	10×1.5	45	60	5	60	3	180
5	10	55-60	5	15	2	15-20	N/A	65-70	10×1.5	45	60	5	60	3	180
6	10	55-60	5	15	2	15-20	N/A	65-70	8×2	45	45	5	60	3	180
7	10	55-60	5	15	2	15-20	N/A	70-75	6 × 3	45	60	5	60	3	180
8	10	55-60	5	15	2	15-20	N/A	70-75	5 × 4	45	90	5	60	3	180
9	10	55-60	5	15	2	15-20	N/A	70-80	6 × 3	45	60	5	60	3	180
10	10	55-60	5	15	2	15-20	N/A	70-80	7 × 3	45	45	5	60	3	180
11	10	55-60	5	15	2	15-20	N/A	75-80	7 × 3	45	60	5	60	3	180
12	10	55-60	5	15	2	15-20	N/A	75-80	7 × 3	45	45	5	60	3	180

Medical fitness programme

34 4	Warming up	oss	Resistance exercise**						lurance exercise ^{§§}		G 1:				
Month	Cycling		Weight machines	3				'In' (active exercise)		'Out' (active recovery)		Cooling down ^{\$\$}	Session	Frequency	Total exercise training
	Duration (min)	Intensity (%HF _{max})	Exercises (n)	Duration (min)	Sets (n)	Repetitions (n)	0/1 PM	Intensity (% W _{max})	Duration (min)	Intensity (%HF _{max})	Duration (s)	Duration (min)	Duration (min)	(sessions/week)	(min/week)
1	5	45–50	5	10–15	1–2	10	%1-RM 50	80–100	4-6 × 0.5	40	60	5	30–40	3	90–120
2	10	55–60	5	20	2	10	55–60	90–110	8–10 × 0.5	45	45	5	45	3	135
3	10	55-60	5	20	2	10	60	60-80	$6 - 10 \times 0.75$	45	60	5	50	3	150
4	10	55-60	5	20	2	10	65	50-55	6–8 × 1	45	45	5	55	3	165
5	10	55-60	5	20	2	10-12	50-70	45	$6-8 \times 2-3$	45	60	5	60	3	180
6	10	55-60	3–5	15-20	2	10-12	50-75	50-60	$5-8 \times 3-4$	45	60	5	60	3	180-225

7	1	0	55-60	3–5	15-20	2	14	55–75	70	5-8 × 3-4	45	60	5	60-75	3	180-225
8	1	0	55-60	3–5	15-20	2	14	55–75	70	$3-5 \times 4-5$	45	90-120	5	60–75	3	180-225
9	1	0	55-60	3–5	15-20	2	14	60–75	70–75	$8-12 \times 2-3$	45	60-90	5	60–75	3	180-225
10	0 10	.0	55-60	3–5	15-20	2	10	70–75	65–75	$5-7 \times 3-4$	45	60-90	5	60-75	3	180-225
11	1 1	.0	55-60	3–5	15-20	2	10	60-80	70–75	$6-12 \times 2-3$	45	60-90	5	60-75	3	180-225
12	2 1	.0	55-60	3–5	15-20	2	12	75-80	70-85	$4-10 \times 1-3$	45	60-120	5	60-75	3	180-225

^{\$}In brisk walking programme the warming up and cooling down consisted of a combination of low intensity (45–60% HF_{max}) walking and stretching exercises

 HF_{max} , maximum heart frequency; N/A, not applicable; %1-RM, percentage of 1 repetition maximum; W_{max} : maximum workload capacity

References

- 1. Meyer K, Samek L, Schwaibold M et al (1997) Interval training in patients with severe chronic heart failure: analysis and recommendations for exercise procedures. Med Sci Sports Exerc 29: 306–312
- 2. De Feyter HM, Praet SF, van den Broek NM et al (2007) Exercise training improves glycemic control in long-standing, insulin-treated type 2 diabetes patients. Diabetes Care 30: 2511–2513

^{*}Depending on the weather conditions, for each training session five different resistance exercises were prescribed out of 21 different floor or elastic band exercises aiming at upper limbs, trunk, back, hip and lower limb muscle groups

[§]In the brisk walking programme interval endurance exercise training was applied in an intermittent fashion. To vary its intensity and increase its attractiveness, exercise trainers could choose from 15 different walking trails or exercise patterns.

^{\$\$}In the medical fitness programme warming up and cooling down consisted of a combination of low-intensity (45–60% HF_{max}) cycling on a cycle ergometer and stretching exercises

^{**}For each training session, three to five different resistance exercises were individually prescribed out of ten different weight machines exercises (vertical row, vertical traction, leg press, leg extension, bench/chest press, pull over, abdominal crunch and flys). Percentage of 1 repetition maximum (%1-RM) was based on repetitive strength testing every 4–6 weeks

In the medical fitness programme interval endurance exercise started with short, relatively high-intensity exercise bouts applied in an intermittent fashion with the intention to increase muscle strength and functional performance. Maximum exercise capacity on a cycle ergometer achieved during intake (W_{max}) was used to individualise the training load. These so-called 'In-and-Out' exercises do not produce feelings of dyspnoea or discomfort and have been shown safe and effective in deconditioned heart failure [1] and diabetes patients [2]. After 4 months the emphasis shifted towards longer exercise bouts on both treadmill as well as cycle- and rowing ergometers. These exercise bouts were alternated with relatively shorter recovery periods aiming to improve endurance capacity